

# The Tech

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FIVE CENTS

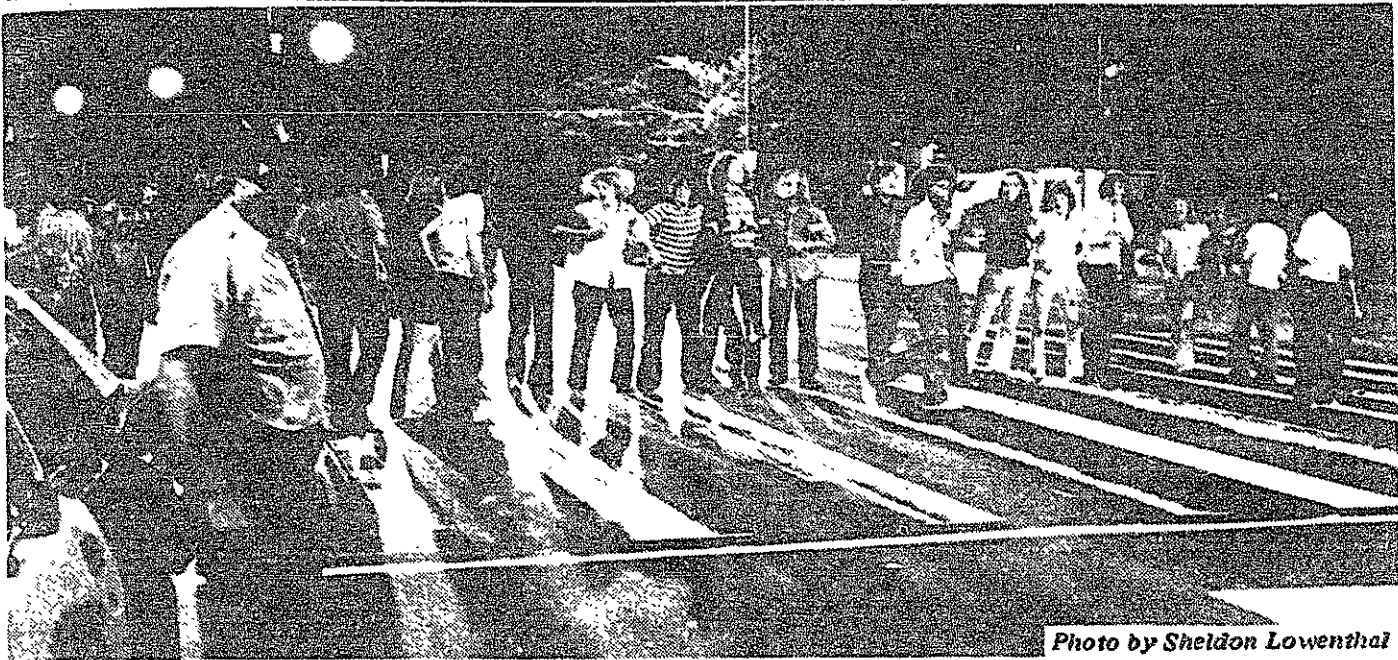


Photo by Sheldon Lowenthal

## 300 mass to protest \$200 tuition increase

By Tom Birney

Approximately 300 students stormed through MIT's main hall and blocked traffic on Massachusetts Avenue as part of Tuesday's eighth annual tuition riot.

Following the precedent set by tuition riots of previous years, this year's disturbance was less of a riot than a street party or an excuse to prowl the streets and expend some energy before settling down to academic matters. Reportedly, some of the police did not share this opinion.

As previously announced, the get-together commenced spontaneously Tuesday night at 11 pm near the Great Sail. For most participants this had been preceded by an hour or two at the Beer Blast in Lobdell dining hall. Perhaps the beer was served to loosen people up and place them in the proper frame of mind, but several appeared a bit too loose.

After 20 minutes, a few preliminary cries, pounding on the Great Sail, and generally waiting around to see what would happen, the crowd of several hundred struck off for Massachusetts Avenue through the hall of the main building. Shouts of "\$3100 Too Damn Much" and "We want the Bursar!" abounded with an occasional inexplicable outburst of "44, 50 or fight."

Massachusetts Avenue was the scene of fun and games with the police as students attempted to block traffic, successfully at first, but with diminishing success as police switched off the walk light and allowed a steady stream of vehicles to pass, so eliminating any ideas of forming a human chain. Police reportedly instructed stopped motorists to "go ahead and run them over. We don't care," and threatened to take a student in if he continued to yell his slogan.

Conceding defeat, the throng streamed across Kresge Plaza toward McCormick where tradition dictates something resembling a panty raid, MIT style, should have occurred. Apparently the McCormick staff cares nothing for tradition since the doors were locked and the crowd moved silently down Amherst Street to Massachusetts Avenue where once again traffic was temporarily halted until police arrived on the scene.

At this point the riot degenerated, with only a small fraction of the original mass present at the President's House where the crowd finally dispersed. Chancellor Gray, who was also present at the Great Sail where the riot began, just stood in the background, and smiled knowingly.

## \$6500 stolen from safe

By Ken Davis

The Dining Service office safe in the Student Center was robbed of approximately \$6500 early Sunday morning.

The robbery, which took place sometime between 2 and 8:20 am, was the second time the office has been victimized within a year.

Although the Dining Service Office was locked at the time, neither the door nor the safe appeared to have been tampered with. The thief was apparently someone who had both a key to the office and knowledge of the combination to the safe.

Salvatore Lauricella, Manager of the Student Center Dining Service, refused to comment on whether or not the theft was an "inside job." "The Institute is well known for losing keys," he said. The Campus Patrol, under the direction of Lieutenant Richard G. Driscoll, is investigating this as well as other possibilities.

This is the second time in nine months that sizable sums of money have been stolen from the Dining Service office. Last December, over \$4000 was taken from the office while it was open. As a secretary was counting the money, someone knocked on the door. When she opened it, a man entered, grabbed the money off a desk top, and ran. He was never apprehended.

Captain James Olivieri of the Campus Patrol said that attempts would be made to tighten up the cash-handling procedures of the Dining Service office. The losses in both cases were covered by an MIT comprehensive bond insurance plan.

Lauricella puts much of the blame for the two thefts on the lack of security in the Student Center itself. The building, which contains the Tech Coop and a library as well as many offices, is open 24 hours daily, with very little supervision.

## Delays mar registration

By Lee Giguere

Unusual one-shot problems plagued this fall's registration, presenting many students with long lines and longer waits when they approached the Armory on Monday morning.

MIT's new financial registration procedures (requiring that the first payment be made by August 10 rather than a week or so before registration) caused, however, "no unusual difficulties" according to Associate Comptroller Philip J. Keohan.

Keohan explained that his office held back about 700 sets of roll cards — a number roughly equal to that of previous years, but composed of a slightly different mix since in the past the cards were held up only for the non-payment of prior balances and not for failure to pay in full the fees for the current term. He noted, however, that no fines for late payment were levied.

Associate Registrar Ronald P. Smith pointed out that much

of the congestion was caused by the arrival of most of the freshman class early in the morning. Smith felt that this was "probably because it was a nice day."

Another snag in the process was the distribution of new ID cards to all students who did not receive new ones last year, according to Smith. Alpha Phi Omega President Len Tower '73 reported that arrangements for the distribution of the cards were not made until about 8:30 Monday morning, requiring that APO volunteers be pulled off other jobs.

Difficulties in the photo line were attributed by Smith to the appearance of people who should have had ID pictures taken in preceding years but had failed to do so.

Upperclass schedule changes, Smith noted, were lighter than in previous years — only 1000 as opposed to the usual 2500. The schedule change desk was busy all day, he observed, without the expected crunch between nine and eleven. Smith also commented that there were a lot fewer hold ups than had been expected because of the new fee payment schedule, although there were a lot of questions about where roll cards were.

One glitch marred the appearance of the new ID cards — the cards give 864-6900 as MIT's phone number rather than the new 253-1000. According to Albert K. Paone, Graphic Arts Production Manager, the decision to replace the old oversized cards was made last April and at that time no one thought to check the phone number. New students (who will receive their ID's later this year) will have the correct number on their cards. Paone said there were no plans at the present to correct the error.

Discussing the financial registration procedures, Keohan explained that 6800 prospective students were mailed material from the Comptroller's office in June. By registration day, some 6300 of these forms had been returned. Keohan explained that the difference between the two figures might be due in part to students who did not receive

their material in time to register, but added that since MIT mails registration material to all the students that it expects to register, many of the 500 missing packets might have been sent to former students who decided not to return.

On August 10, Keohan explained, the file was reviewed, and the list of those accounts that were unpaid was broken down into three categories: 1) students who had opted for cash payment and had not made payment; 2) students who had not received as much aid as they had said they were going to; and 3) students with an unpaid balance remaining from the preceding term. In all, he noted that there

(Please turn to page 5)

## Institute denies selling junk mail address lists

Subscription offers from magazines are nothing new, but this summer a number of MIT students received a mailing from Newsweek emblazoned with the words: "No one else at MIT has this number:..."

MIT does not sell its mailing list to anyone, according to Associate Dean for Student Affairs Richard Sorenson. He speculated that the magazine publisher obtained the information by buying a student directory from an MIT student.

Only one complaint, a letter to President Jerome Wiesner, asking how the publisher obtained the names and addresses, has been received from students as far as Sorenson knew, but he added that he had heard about such mailings over the years.

Sorenson explained that all the information in the directory is public, and that in spite of the warning "For Institute Use Only" on the cover, the Institute cannot prevent anyone from us-

ing the information in the listing for commercial purposes.

Students' addresses, Sorenson added, can also be obtained simply by walking into the information office and using their card file. People requesting information by phone, he noted, are usually asked to give a reason for their request.

The student mailing list, which is prepared by the Registrar's office, is available to student activities. Sorenson pointed out that the Dean's Office reviews all such requests (last year there were between 40 and 50). In the past, the Office has sifted out attempts by individual entrepreneurs to obtain mailing lists from MIT, but Sorenson reported that he hadn't heard about or seen any abuse of the privilege recently.

Queried about MIT's degree list, Sorenson replied that it is not published until after graduation, and contains only names, no addresses.



MIT's first \$5000 Killian Award was recently presented to Prof. Nevin Scrimshaw, head of the Department of Nutrition and Food Science. The award, established last spring by the faculty as a permanent tribute to the tenth president of the Institute and former chairman of the MIT Corporation, was presented to Scrimshaw for his contributions "to our understanding of numerous aspects of human nutrition."



# Too late for the catalogue:

**21.316 Novels by Women**  
Prereq.: 21.03 or 21.11  
Year: U (I) 3-0-6  
The theme of love and power in the fiction of twentieth-century women writers in England and America. Examination of the range of issues and literary techniques in their works. Emphasis on the various roles and phases of women's lives and the struggle for liberation. Readings include novels by Virginia Woolf, Doris Lessing, Penelope Mortimer, Carson McCullers, Paule Marshall, Sylvia Plath, Joan Didion. Supplementary material on psychological, social and political backgrounds including *Sexual Politics* and *The Second Sex*. (Limited enrollment. Permission of instructor required.) (T-R 11-12:30, Room 4-146)

B. Sirota

**21.691 Women in Cross-Cultural Perspective**  
Prereq.: 21.06  
Year: U (I) 3-0-6  
A review of the ethnographic literature with emphasis on the role of women in various cultures. Examination of women vis-a-vis the nature and domain of male authority, economic contribution, cultural definitions of female sexuality and reproduction, the domestic sphere and socialization. Anthropological depictions of women as science or ideology. (T-R 11-12:30, Room 13-4101)

J. Jackson

**17.61 America and the World**  
Prereq.: 17.56 or 17.57  
Year: U (I) 3-0-6  
This course given instead of 17.59. An informal seminar on some crucial issues for the concerned student who has already been exposed to more formal course work. Topics will include: Foreign Policy and Election '72; The Conflicting Roles of Responsibility and Criticism; The Politics of Political-Military Relations; Who Started the Cold War?; Revisionism vs. Recollection; Contending Ways of Analysing Foreign Relations; Ethics and Foreign Policy; Potential Careers in World Affairs; Normative Policy Research; Student Experiments in the CASCON System. (R 11-1)

L.P. Bloomfield

**17.57 Principles and Problems of American Foreign Policy**  
Prereq.: 17.56  
Year: U (I) 3-0-6  
This course, which is described in the Catalogue, but was not included in the class schedule or the original Political Science Department listing, will be taught this fall. (T 3-5)

**17.996 Introduction to Comparative Policy Analysis**

Prereq.: —  
Year: U (I) 3-0-6  
For those interested in public policy, the seminar maps the assumptions and achievements of various approaches to comparing policy across nations, across time, and across subject matters: The Policy Fennel as an Episode in the Sociology of Knowledge; New Formalisms; The Neglect of Social Theory; Mathematical Explorations of Policy; PPBS in the US and Britain; Why Things Go Wrong; Cases in Policy Analysis — Food, Health, Transportation, and Unmarried Mothers. (R 9-11)

H. Hecht

**17.995 Public Opinion and Voting Behavior: Racial Conflict in U.S. Politics**

This seminar will review the influence of racial issues in local and national elections in the 1960s and the sources of anti-black attitudes from an interdisciplinary perspective. Theoretical and methodological issues raised by race-related research will be discussed in the context of political science theory concerning public opinion and voting behavior. Special attention will be given to recent or on-going research in these areas. These projects include: (1) studies of white attitudes in cities where blacks have been mayoralty candidates, (2) support for George Wallace (1964-1970), (3) secondary analysis of public opinion data (from Gallup, NORC, and SRC [1959-1970]), (4) white and black attitudes from the Kerner Commission 15 city survey, (5) comparative city data on riots, (6) precinct voting data (and some survey data) for the city of Boston (1959-1971). The data from these studies (along with computer control cards for statistical packages) are available for student

term projects. The course will also consider the political implications of such fundamental problems as residential segregation, urban disorders, socio-economic inequalities, and the recent "busing" controversy. The seminar discussions will focus on such topics as: The Wallace phenomenon; Backlash politics in the North: The Case of Louise Day Hicks; Black candidates for mayor; Race politics in the contemporary South; Attitudes of Black Americans; Changes in anti-black attitudes in the 1960s; Demographic composition of racial attitudes; White racism and political ideology; Voting with their feet: white flight to the suburbs; Comparative studies of urban disorders; Economic and historical perspectives: change or stability in American race relations? Since this course was not described in the catalogue, participants are welcome even if they miss the first session. (W 3-5)

J.M. Ross

**12.141 Remote Sensing of the Earth**  
Prereq.: —

Year: U (I) 2-0-7  
A review and discussion of methods and motives for studying the earth's surface from airplanes, balloons and spacecraft. The application of remote sensing techniques to problems of geology, geophysics, resources, ecology and environment preservation. The course will be taught as a seminar with one two-hour per week session. Students will be expected to prepare one discussion session and one term paper on a topic of interest. Graduate credit can be arranged. First organizational meeting will be held in room 54-915 on Tuesday, September 19 at 11 am.

T.B. McCord  
T.R. McGetchin

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# Bank institutes ID's to stop check misuse

By Paul Schindler

With the number of bad checks skyrocketing everywhere, one Cambridge bank has hit upon a new angle to foil forgers and thieves.

Cambridge Trust (offices in Kendall and Harvard Squares) has taken its pre-existing system of photo identification to its logical conclusion. The bank started issuing photo ID cards in October of 1969, and by spring of the following year was also including full color ID pictures on its Mastercharge cards (as an option). Wednesday, the bank became the first in New England to offer photo ID checks.

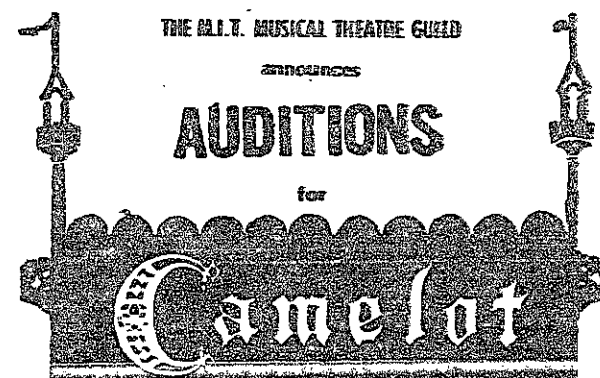
The new scheme serves two purposes: it protects the bank customer whose checks might be stolen and forged, and it protects the small merchant, many of whom have ceased accepting personal checks because of the high incidence of fraud and insufficient funds.

The procedure for getting the new checks, which are optional at extra charge, differs very little from the standard procedure of opening a checking account at the bank. The system used is one of the several Polaroid ID systems, which simultaneously produces two copies of the portrait, and a copy of the customer's

signature on the same piece of film. Forgery and tampering in these one piece systems is very difficult. The cards differ from those issued by the Institute, for example, in which lamination merely holds a separate picture onto a pre-printed form. Bank officials note that the marginal cost of the portrait checks is not much more than that of the increasingly popular scenic checks which are also available.

The check has increased enormously in popularity, and somewhere along the way has become much more than a convenient substitute for money; it has become an expression of the bearer's personality and lifestyle and even, in some people's eyes, essential in this age of daily muggings and rampant mail theft (postal officials contend that money order and check are the ONLY ways to send money through the mail).

Incoming freshmen should take special note of the new service: Cambridge Trust provides a same day, color photo ID card which might prove very handy for identification purposes during the several weeks it will take MIT to provide an Institute ID. Out of state driver's licenses and high school identification are frowned on in most Boston business establishments.

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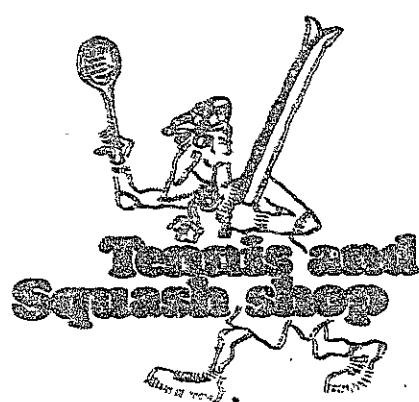
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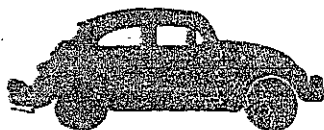
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Wednesday, September 20, at 3:00 and 7:00 pm  
Thursday, September 21, at 3:00 and 7:00 pm



# Miami: Blue jeans and fur coats

By Norman D. Sandler

If there was one single reason for bearing through both of this year's political carnivals from Miami Beach, Florida, it was to compare the Democratic constituency with its GOP counterpart.

Never before has there been such a marked difference between the two nominating sessions of what most political observers were (at that time) referring to as the most incredible presidential race ever between the two great parties.

The Democrats came to Miami Beach a divided party. Theirs was a fight to retain party unity, and the delegate body was comprised of students who had funded their trips through dinners and bake sales at home, housewives who had entered the political arena for the first time, professional educators, and the professional convention delegates who until this year had been fixtures at all party functions.

The Democrats were indeed a rather strange bunch, by all previous standards. On the whole they were of lower income and more idealistic than previous convention delegates, and as many political cartoonists depicted that second week in July, they even looked like many of the "non-delegates" who had been streaming into the tourist-trap known as Miami Beach for the weeks preceding the opening of the convention.

These were also delegates who, in many cases, had ideals which exceeded their own political priorities. The issues brought before the floor of the convention caused many to fight for personal beliefs which they felt should be brought out into the open political forum for the first time.

The Republicans, needless to say, were vastly different. They came to Miami Beach not in car pools and jeans, but rather in private jets and fur coats. They were older than the Democratic delegates, and came to Florida for a week of fun in the sun, periodically interrupted by scheduled political formalities, such as the nominations of Richard Nixon and Spiro Agnew.

There were more regular convention goers and party regulars posing as delegates for the GOP shindig, and a very noticeable lack of youth representation, or for that matter, minority representation, as one gazed across the delegate body on the floor of the convention hall.

This is not to say that the Republicans do not have the support of the 18-21 crowd. The GOP leaders, in fact, had planned for the television cameras to give exactly the opposite impression, as they allowed hundreds of "Nixon kids" access to the floor of the convention, while many *bona fide*, accredited journalists had to sit on the sidelines, and were restricted in their every move.

The "Nixon kids" constituted the most decadent aspect of the GOP circus, which was already far past the limits of normal acceptability. They came from all fifty states, according to their organizer, the Republican senator from Tennessee, to cheer for the president and demonstrate to the American public that the present administration has more support among new voters than anyone had predicted.

They cheered enthusiastically for three days and five sessions of the convention, while convention leaders insisted that

they had come by their own expense (on planes the GOP had arranged to charter) and were footing their own bills in Miami Beach as they were hustled from party function to party function, to stand before the television cameras. The most absurd moment was provided by NBC News' Tom Pettit, who, while roaming the floor on the second night of an extremely boring convention, pursued the question of the Nixon kids actually being programmed to applaud and "spontaneously demonstrate" at scheduled times throughout the evening. GOP leaders insisted this was not so, even though Pettit observed seven men with walkie-talkies circulating throughout the gallery where the applause-crazed kids were sitting.

It is important to point out that it was not only the constituencies which made the two Miami-based circuses different this year. Their handling by the respective parties showed sharp contrasts in the ways the two operate.

The Democrats had what was, for the most part, an open convention. There were many candidates nominated for both president and vice-president, while the Republicans would not even allow the name of Paul McCloskey to be submitted for nomination, even though he had received one delegate vote.

In addition, the Republicans were playing their convention for what it was: free TV time. What dirty work there was (i.e. regular business) was handled during the soap opera times of the afternoon, while the evenings were reserved for loyalty speeches and a considerable amount of mud-slinging by such renowned figures as Ronald Regan and

Senator Robert Dole (R-Kan.). This in itself made the GOP convention unbearable for many television viewers who found it much more entertaining and sane to watch something along the lines of "The Mod Squad" or "Marcus Welby, M.D."

Overall, the most disheartening aspect of this year's conventions was the probability that the average John Q. Electorate could not cut through the glitter and make-up of the Republican convention to see the GOP for what it really is. In most cases, the convention provided infinite political mileage for the Committee to Re-elect the President, whose staff should have been listed with the other executive producers, directors, and make-up men in CBS' credits after the final session, and for this one almost has to commend the Republicans.

However, after this year's farce we may see the gradual phasing-out of the convention nominating sessions, much to the dismay of the Republicans, and probably the Florida State Police, but not to the dismay of the city of Miami Beach.

## Register to Vote

To register in Massachusetts, you must have turned 18 years old and have been a resident of your city or town for 31 days prior to November 7, 1972.

## CAMBRIDGE:

Register at:

—City Hall, Mass. Ave. in Central Square, or Roberts School, Harvard and Windsor Streets (a few blocks northeast of MIT), every Monday and Thursday from 6 to 9 pm, and every Saturday from 10 am to 2 pm, now through October 5.

—MIT Student Center, West Lounge, October 4, 11 am to 3 pm. This is tentative, and subject to change on short notice.

You will need as evidence of physical presence in Cambridge:

—if you live off-campus:

—Your name on the Police List or in the phone book, or  
—A notarized statement from your landlord, or  
—A cancelled check or rent receipt, showing your address.

—if you live in a dorm or fraternity:

—A letter from the Housing Office, 7-133, verifying your residence or  
—Your name on a list of MIT on-campus students, submitted by the Registrar's Office to the Election Commission. (NOTE: this applies ONLY if you register at the Student Center.)

More information: Cambridge Election Commission, 876-9828.

# Letters to The Tech

To the MIT Community:

Since January of this year, we have gathered for an informal lunch to talk over the affairs of MIT women, and of women in general. The Forum meets in the Bush Room every Monday at noon. It began as an IAP experiment... the inspiration of Professor Mildred Dresselhaus, Associate Head for Electrical Science and Engineering in the Department of Electrical Engineering, Professor Emily Wick, Professor of Food Chemistry in the Department of Nutrition and Food Science, and Ms. Dotty Bowe, Assistant Director of Financial Aid.

Originally intended for student women, the gatherings quickly became an open forum for all the women at the Institute. Literally hundreds of women came to the meetings, eager to meet and talk with one another. Many of the meetings became heated discussions of the problems of women in the MIT environment. Other meetings, more practical than philosophical, provided much needed information. We heard from various Institute officers, and became more educated about the Tuition Assistance Plan, the operation of the Personnel Office, and the administration of the Benefits Office and various other community services. Women came from organizations and institutions around Boston to relate their experiences as professionals. Long-time employees of MIT came and discussed how they made their way at the Institute and how their experiences as women affected the history of their careers. MIT women found they had much in common, despite their broad and varied backgrounds and professional training.

The Forum has served, and hopes to serve again this year, as a place where any woman will feel welcome and encouraged to express her views on any issue.

The Forum did undertake some specific projects. A group of women drew up a proposal to submit to the administration their views of women's needs at MIT. This first proposal triggered a tremendous effort on the part of many women in the Forum to gather the concerns of the broad variety of women and their problems into one carefully formulated proposal requesting the hiring of two women to be especially concerned with the affairs of women at MIT. The women in the Forum worked closely with members of the Ad Hoc Committee on the Role of Women at MIT, a committee of students and faculty which had worked hard all year studying and preparing a report on the experiences of women students. The Ad Hoc Committee was given the responsibility of finding an assistant to the Dean for Student Affairs with a special concern for women students. Their experience and ideas were vital to the writing of the proposal finally submitted to the MIT administration.

After the proposal was submitted, revised, and discussed with the administration, a search began for a Special Assistant to the President and Chancellor for Women's Affairs. The Forum looks forward to hearing from the new Special Assistant when she is appointed, and to helping her in any way they can.

This year, the Forum hopes to bring in new people, as well as welcome back those who were gone for the summer. An informally organized group, we have tried throughout to share the responsibilities of

scheduling events and activities in the Forum. Members of the Forum have this summer been working with the Administration on the selection of candidates for the Special Assistant. Others of the Forum have been meeting informally to develop ideas on speakers and events for the coming year. We hope to have visits from women in various academic areas, from women in business, women who occupy executive positions, and women who have generally had interesting career experiences. We hope to include some discussions about Day Care and review Benefits and Tuition Assistance as well as the other services and organizations available to members of the MIT Community and their families. We hope to hear about the latest changes in the Athletic Department, and about possibilities for Career Development. Women students, employees, and faculty should all benefit from the wide variety of topics we hope to bring to the Forum. There is no rigid formal structure... the forum has built its strength on the common concerns of all women, and wishes to continue to function as a lively open-ended gathering place for personalities and ideas of all kinds to exchange and enrich one another.

It is important to all of us that women support the Forum with their attendance... our next meeting is September 18, where we hope to gather a large group once again and to start on a year of interesting discussions and good company. Grab a sandwich, a yogurt, and come to the Bush Room at noon. You are all most welcome. We want very much to add fresh outlooks and new ideas to our growing group.

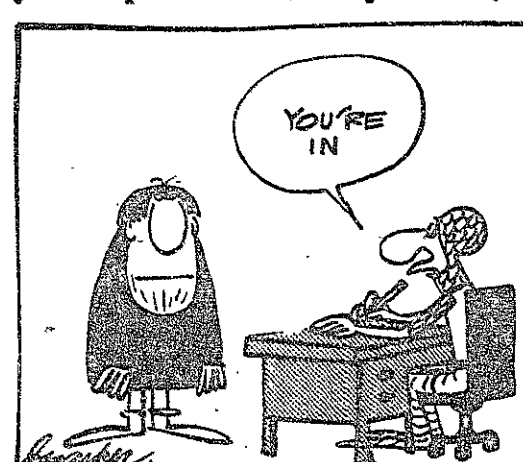
Mrs. Roberta Hurland

by Brant parker and Johnny hart

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# The Tech

Since 1881

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# Weisner greets freshman

By Ken Davis

Approximately 300 freshmen and parents crowded into and around the MIT President's House for the President's Reception. The reception, which was held on Sunday afternoon, September 10, gave the freshmen and their parents a chance to meet President Jerome Wiesner, many for the first time and equally many for the last. Equally important, the visitors were able to meet with many representatives of the administration and faculty, including a majority

of the freshman advisors.

Some students and parents heard Peter Buttner of the Freshman Advisory Council describe the process of matching freshmen with advisors as, "Sort of like a computer dating service." Others met an advisor, just returned from a summer project, wandering through Wiesner's garden, a list of names in his hand, trying to find his advisees.

As the reception began, the visitors formed a line to shake hands with and meet Dr. Wiesner, Chancellor Paul Gray, Dean Richard Sorenson, and their wives. The six pumped hands for over an hour before joining the guests in the garden.

Unfortunately, this format did not allow the guests a chance to have more than a few brief words with the president and the other dignitaries. One freshman made the best of this opportunity by telling Wiesner, "I met you at the picnic with a group of students, and we didn't pay much attention to you." For the most part, though, the conver-

sation was confined to the most frequently asked R/O week questions: Where are you from? What's your name? What major are you interested in?

Afterwards, Wiesner commented on his impression of the class of '76. "It's hard to make an impression in such a short time," he said. "However, it seems that this class has a stronger sense of direction than most in the last six or so years. When you ask them what they want to do, they'll say chemistry or electrical engineering, a snap answer. The last few years, most would have answered 'I don't know.'"

Outside of the President's Residence, the Students for a Democratic Society and the Anti-Complicity Committee distributed material advertising upcoming meetings and suggesting "Eight questions to ask Jerome Wiesner." The questions were critical of Wiesner's and MIT's involvement in various military and defense-related research programs, as well as other political and campus issues.

## Frosh flood Armory and delay registration

were 1900 students with problems in their financial registration.

The first cut through the list, Keohan continued, removed all the files for which the outstanding balance was less than \$100 (last year the figure was \$25). This left 300 students with incomplete payment for this term and 250 with unpaid prior balances. The Student Financial Aid Office then reviewed the files of those students whose aid figures appeared in error. The office sorted this group into categories which were explainable by them. (Nearly 100 students had in-

cluded their term-time job allowances as aid — none of these students had their roll cards held back.) Keohan stated that the Aid Office found some 150 of the accounts unexplainable, and the Comptroller's Office pulled their roll cards also.

The roll cards of about 900 foreign students and some 300-500 special students were also withheld, Keohan noted. He explained that foreign students with overseas addresses are not sent their material because of the difficulties of mailing overseas. The special students, he said, are considered as "walk-ins."

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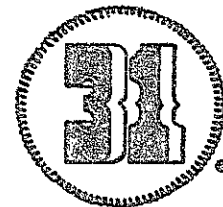
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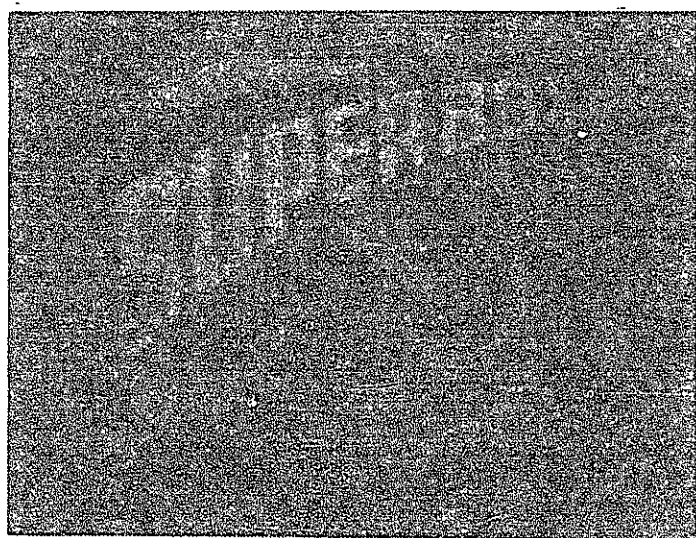
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# Dormphone finds bugs in starting fall service

By Robert Nilsson

While the vast majority of phones on campus are properly working after the major change-over to Centrex this summer, some students have experienced problems with their Dormphones. Baker House has had the most difficulty with as few as 75 Dormphones properly functioning. MacGregor and East Campus have also had scattered problems.

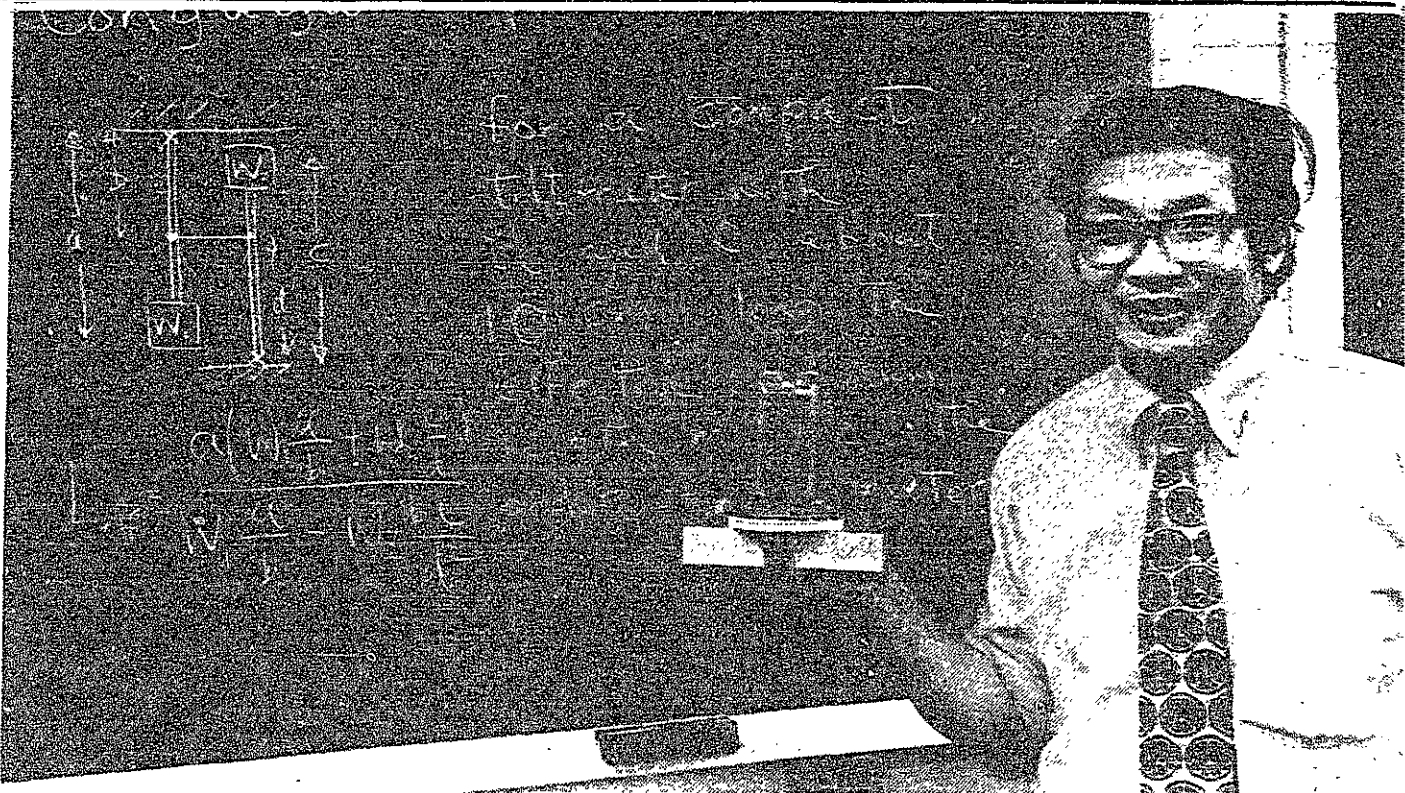
According to Senior Dormphone Repairman Dale Zellers, the problems at Baker are due to the repair done on the rooms over the summer. In order to replace the old and rotting window frames, the attached desks had to be removed. In the process the original phones and old wiring attached to these desks were severely damaged.

The Dormitory Telephone Service which installed the new system has had its Dormphone repairman putting in new wiring to replace the old, damaged lines in the Baker dorms. In MacGregor the few problems were possibly caused by tampering. At East Campus some problems were caused by bad contacts and other similar difficulties due to the age of the phones there.

Zellers explained that the reason the Dormphone people could not get all the bugs out of the system during the summer was because they were also busy on a number of major projects requiring considerable work.

It would make it easier, Zeller says, if anyone who has trouble with his Dormphone would obtain and fill out a complaint form from their dormitory desk. The form has questions which help the Dormitory Telephone Service to determine if the trouble is inside the system or at the telephone. It should be noted that some phones are disconnected if they are left off the hook for a long period of time so they will not tie up the system.

A few dorms have had the numbers of their Dormphones changed. McCormick, formerly 9-XXX for the west tower and 0-XXX for the east, has been rewired to 8-8XX and 8-9XX for both towers. This facilitates a room number to phone number conversion. The Ashdown B-rooms were formerly partied with the A-rooms and had 9-9XX and 9-0XX numbers. Now these rooms have 9-5XX numbers freed by compacting



Professor Yao T. Li of Aero and Astro holds his newly-developed ground-tilt meter. Li is teaching a seminar on "Socio-Technological Innovations." which will try to teach people how to transform an idea into a viable product. [See story page 7] Photo by Sheldon Lowenthal

the McCormick numbers closer together.

It should be noted that the long distance operator cannot be reached by dialing 0-611 as reported this summer by *The Tech* and *Tech Talk*. Students must dial 80-190 to reach an operator to make collect or credit card calls.

In most of the dorms algorithms exist for deriving the Dormphone number from the room number. For example, on

the third floor of McCormick 8800 is added to the last two digits of the room number. On the fourth floor 8840 is added to the last two digits, and so on adding a different constant to each floor. In the MacGregor low rise a similar system applies, while in the high rise a more varied algorithm is the case.

In Burton where letters for the rooms and a varied number of rooms per suite abound, no conversion factor exists.

CLASS OF 1973

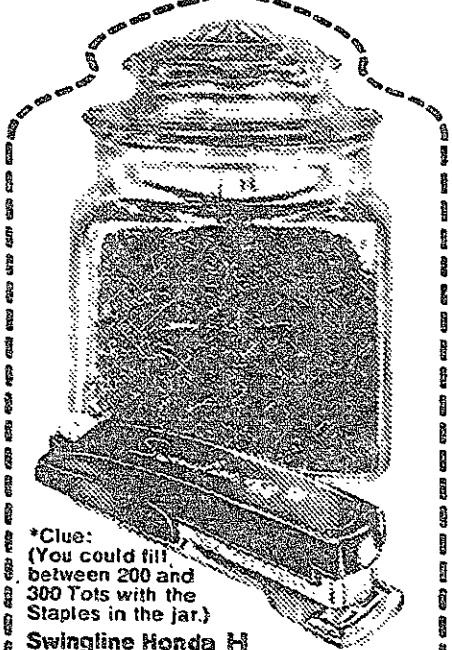
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# New seminar to train entrepreneurs

By Paul Schindler  
SEM 166 Socio-Technological Innovations  
Prof. Yao T. Li

This seminar is aimed at stimulating the self-motivated innovative ideas of students with a diversified background — from all phases of engineering to entrepreneurship in domestic or international activities. Preferably each enrolled student would come with his own pet idea, but a number of suggestions will be made available to those with strong drive but lack of identified objectives.

Small groups will be organized so that every project can be reviewed collectively and frequently while encouraging maximum amount of cross-fertilization among the group members. Selected progress reports will be presented to the entire class at monthly meetings.

Expertise from the fields will be sought to focus upon the originality, feasibility, and marketability of each proposed scheme. Teamwork will be organized with the objective of bringing the promised ones to reality.

Examples for innovative ideas may involve the development of a new form of man-powered vehicle to be more portable and efficient than a bicycle; to stop the leaning of Pisa Tower; or the development of certain products which may promote two-way trade with the People's Republic of China.

The course description printed above belies the scope of the course being offered by Professor Li, a long-time member of

the Department of Aeronautics and Astronautics (he received his Ph.D. here in 1939). Li thinks of things in terms of "systems," as a result of his experience as one of the originators of the systems concept in his department.

The idea for the seminar which he will be giving this term is based on his own experience as an inventor and entrepreneur. During the early 40's, Li was doing work with Charles Stark Draper which led to a patent the two of them shared. The process involved in carrying an idea from the lab to real-world production and usage struck him at that time as being both interesting and important.

Since then Li has devoted a great deal of time and thought to developing his concepts, which center around a key problem: there is really no formal method at the Institute now for instructing a student in "idea system operation." There are certain useful skills and techniques which take an idea out of a person's head and put it into 100 million living rooms.

Li illustrated his concept with an idea he has been working on recently. One of the frequent meetings which he was attending in connection with a small firm he runs revealed that there was a

need for a device to measure ground tilt, to be used in earthquake prediction. He took one look at the device now used by the US Geological Survey (the current major customer for such devices) and realized that a better design could be made.

A weekend of work in his company's lab produced a working model which Li stored in a peanut butter jar. This event occurred over the Labor Day weekend, and inspired the professor.

"The seminar will try to teach people how to take a worthwhile idea and develop it commercially for real-world use. But I realize that it will be hard for people to come up with good ideas right away. This provides the first idea. The students in the seminar this fall will witness the setting up of a new company to handle this product, in addition to learning how to get the licenses and manufacturing techniques which will be needed."

Li also noted that the seminar is directed at freshmen, but needs upperclassmen to survive and prosper. "I am hoping to attract upperclassmen from various courses to this project, to provide a wide range of skills and knowledge."

Li has his own thoughts on

the matter, a few of which are set down here.

One of the most imaginative innovators and entrepreneurs of our time is Dr. Land of the Polaroid Corporation. He left college at Harvard in order to pursue his first innovation, the polaroid lens, which led to his great enterprise, the Polaroid Corporation. Although this is an extreme case, it does accentuate what little college education is needed to be an innovator and entrepreneur. Indeed, the "I and E's" are queen bees of society, while colleges and trade schools provide the workers and are designed primarily for that purpose.

Ever since the industrial revolution, the Western world has enjoyed three major endowments, namely: (1) Riding on the crest of a general breakthrough in natural science; (2) An abundance of the world's natural resources; (3) A tremendous world market. This is an ideal environment to breed "I and E," and each "I and E" can provide thousands of jobs for his followers. Times change. Our future society will have more constraints than ever. The natural breeding ground for the "I and E's" shrinks, while at the same time society needs an increase in

the ratio of the number of "I and E's" to the number of workers, because the carrying power of each "I and E" is reduced. Maybe it is time to consider a place for the "I and E's" in college. If "I and E" cannot be developed by drilling, then every sign of self-motivation should be encouraged. Our future Dr. Lands need not wait for the honorary degree if moonlight operations in college receive proper recognition.

The first function of this Seminar is as a forum or club for those students with a strong desire to promote things to satisfy a possible need of society while subjecting to the drilling of regular courses to fulfill a degree requirement. This forum will consider their situation and make recommendations.

The second function of this Seminar is to provide a place for the student to gain encouragement and to share experiences with others who have a flare for "I and E" activities.

Finally, it is hoped to establish a financial independency of operation for the group and provide adequate monetary support and reward for the individual members.

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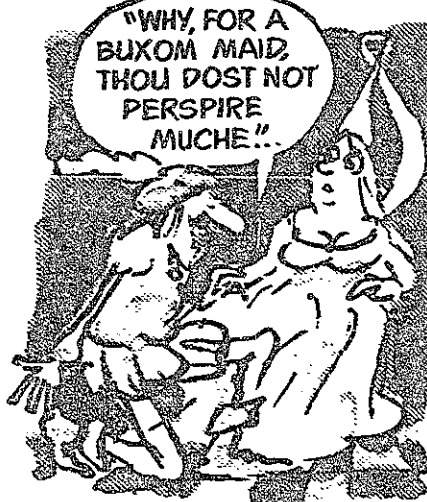
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# SPORTS

## MIT fall sports preview

By F.H. Hutchison

Most of the engineer varsity teams have begun practicing this past week for the upcoming fall season.

I wandered around the athletic fields on Tuesday and had a chance to observe some of the

sport at MIT the general outlook is for a year of rebuilding. The team that won eleven and lost six and then went on to win the New England Championship is no more; ten men lost to graduation.

Coach Batterman remarked

tional rivals include Tufts and Boston College. stiff competition is also expected from RPI and New Hampshire.

### Fall Golf

Coach: John G. Barry

Captain: Robert J. Keeth '73

The Varsity Golf team under the steady hand of John Barry, now assistant athletic director, is practicing for an important fall season. Barry commented that the team was not particularly strong as a whole, but should pick up some experienced freshmen.

Returning lettermen are Bob Orloff '73, Tony Poli '74, Dave McCartney '74, Pat Schultz '75, Mike Arnold '73, Warren Sherman '73, and captain Bob Keeth '73. Also mentioned as potentially strong was Alexander Pankow '75.

## Sailing teams look good; first races Saturday

As the MIT sailing teams begin practice this week, the outlook for the upcoming fall season looks promising. Both the men's and women's varsity squads have been strengthened by the return of their top skippers. Both teams, as well as the Tech freshman squad, open their seasons this weekend.

The men's varsity, led by captain Aian Spoon '73 and Steve Cucchiaro '74, will compete in invitational regattas this weekend at Tufts and Boston University, in addition to an elimination heat at the Coast Guard Academy for the New England Sloop Championship.

Other sailors returning from last year's squad include Frank Keil '73, Dean Kross '73, Bob Longair '73, Walter Frank '74, Arsenio Nunez '74, Joe Kelly '74, Rich Zippel '74, Guy Consolmagno '74, and Randy Young '74, as well as sophomore hopefuls Chuck Tucker and Dave Aldrich.

Highlights of the men's fall season include the Danmark

Trophy, won last year by MIT, the Fowle and Staake team racing competitions, and the Schell Trophy Regatta.

MIT's highly successful women's varsity finished out their spring season by placing second in the national championships in June. Two top skippers from that term are captain Maria Bozzuto '73 and Shelley Bernstein '74, both of whom will be back this year.

Following their opening regatta at Stonehill tomorrow, the women will compete in the New England Singlehandeds to be held at MIT next weekend. Other major regattas include the Man Labs Trophy at MIT, the Victorian Urm Trophy at Radcliffe, and the Boston University President's Trophy.

The Tech frosh, also beginning practice this week, open competition on Sunday at Tufts. Their season will be highlighted by the New England Single Crew Championships (Priddy Trophy) to be sailed at Harvard in November.

teams and talk with the coaches. Here's a summary of comments and outlooks for the fall season:

### Soccer

Coach: William S. Morrison

Captain: Erik Barklis '73

Despite a lack of seniors, this year's soccer team is out to win games and better last year's record of five wins and eight losses.

Coach Morrison commented that the 60 players out for the varsity and JV teams are the largest number in his 10 years of coaching at MIT. He expects a more solid squad with better depth than last year's team and he explained that this was the best looking soccer team that he'd seen at MIT in quite a while.

Outstanding players to watch include Erik Barklis '73, team captain and a returning letterman. Freshmen mentioned as possible starters include Greg Hunter and Shin Yoshidan of Japan.

The soccer eleven open their season on Saturday with a scrimmage against Clark University with the first regularly scheduled game against a very tough Harvard squad on September 27 at 3:30 on Briggs field oval.

### Water Polo

Coach: Charles Batterman

Captain: Edward Kavazanjian '73

As the water polo team enters their third season as a varsity

that there were some very outstanding players who graduated with the Class of '72. He said, however, that star players are good, but perhaps hurt the overall team effort. His philosophy for winning is swim hard as a team and use a fast moving attack.

Standouts to keep an eye on include: Ed Kavazanjian '73, captain, Pete Jenkins '73 and Dave Schneider '73. Also back is Dan Bethancourt '75 who sat out last season with a shoulder separation.

The varsity water polo team opens their season with a tournament with Army, Brown, Bowdoin, Harvard and Northeastern at MIT's Alumni Pool on Friday and Saturday, October 6 and 7.

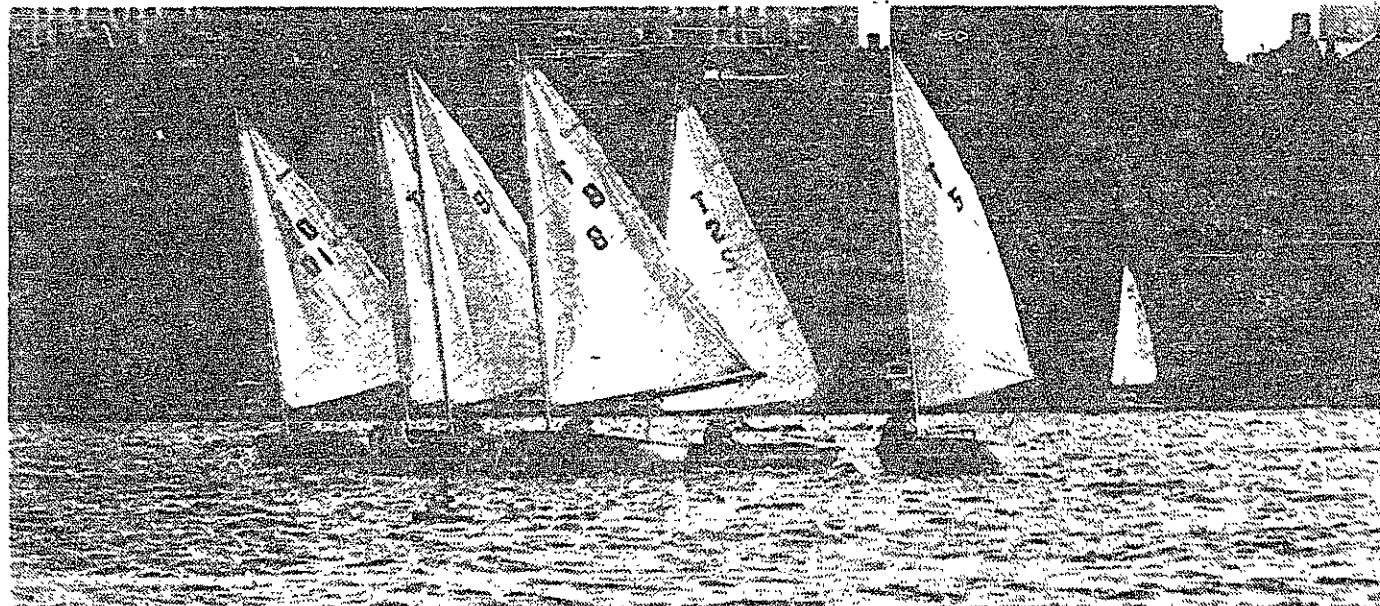
### Cross Country

Coach: Arthur E. Farnham, Jr.  
Assistant: Gordon V. Kelly  
Captain: John E. Kaufmann '72

Off to a late start, the cross country team is working hard to have a winning season like the eleven and two compiled last year. "We missed our pre-season training," commented Farnham, "and we still have some fellows who haven't come out yet. Right now we're a rather unknown quantity and everybody will have to help for a winning year."

Three lettermen are back from last year's team: John Kaufmann '72, captain, Terry Blumer '73 and Peter Borden '73. Two others to look for are Walter Hill '73 and Al Carlson '74, a transfer student from Brigham Young University. Freshmen may prove helpful to the varsity if they can make the transition from the two to three miles of high school races to the five miles of collegiate competition.

A rough season lies ahead and the whole team will have to run hard to come out on top. Tradition



### Fall Tennis

Coach: Edward A. Crocker

Captain: Lance Heilinger '73

With only one player lost to graduation, this year's varsity tennis squad is hoping to compile a better record than last year's seven wins and six losses in New England competition and seven and eleven overall.

Although the main tennis season comes in the spring, three or four informal matches are played each fall. Returning from

last year's squad are Ted Zorous '74, Keyen Struhl '74, Mike Lewis '74, Lance Heilinger '74 and Lee Simpson '74. Also back, in the words of Coach Crocker, is "perhaps the best player to hit Tech," Bill Young '74. Because of a lack of athletic funds, Crocker explained that the whole team probably wouldn't make it to the E.C.A.C. tournament at Princeton on October 1. He did, though, feel that Young would be able to compete.



### Fall Baseball

Coach: Francis C. O'Brien, Jr.

Captain: Rich Chapie '73

Fall baseball is for evaluating freshmen and JV players and for filling spots vacated by graduation. This fall's ten-game season is also for finding a third baseman, a shortstop and pitchers, comments Coach Fran O'Brien.

This is a young team and they can well use the fall season for experience. Returning to the squad are: Rick Chapie '73, catcher and team captain; Dave Tirrel '74, who led the Tech nine in hitting and made the G.B.C. All Star Team, and will move from third to second this year; Herb Kunner '75, first baseman and an outstanding defensive player. The outfield is filled with juniors who are all two year lettermen: Kevin Rowland '74, left; Steve Reber '74, center; Joe DeAngelo '74, right. The only returning experienced pitcher is Dave Yauch '75.

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